

EAST Search History

10/001,506

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	e\$commerc\$5 same document same re\$1us\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 18:23
L2	5	e\$commerc\$5 same document same re\$1us\$5 and @ad < "20010927"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 18:23
L3	3	"20050060343"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 18:23
L4	2	"5956716".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 18:23
L5	12	e\$commerc\$5 same document same (past or future) and @ad < "20010927"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 18:23
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L8	44	ebay.as. and @ad < "20010927"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 18:23
L9	10	"20020188551" or "20040138966" or "20050033648" or ("6523037" or "6732161").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 18:23

EAST Search History

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EAST Search History

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EAST Search History

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EAST Search History

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S27	20	707/102.ccls. and S23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/09 11:28



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Relevance scale

1 A survey of peer-to-peer content distribution technologies

Stephanos Androulidakis-Theotokis, Diomidis Spinellis

December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4

Publisher: ACM Press

Full text available: [pdf\(517.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance. Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 The LOCKSS peer-to-peer digital preservation system

Petros Maniatis, Mema Roussopoulos, T. J. Giuli, David S. H. Rosenthal, Mary Baker

February 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1

Publisher: ACM Press

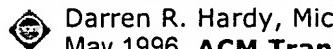
Full text available: [pdf\(715.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The LOCKSS project has developed and deployed in a world-wide test a peer-to-peer

system for preserving access to journals and other archival information published on the Web. It consists of a large number of independent, low-cost, persistent Web caches that cooperate to detect and repair damage to their content by voting in "opinion polls." Based on this experience, we present a design for and simulations of a novel protocol for voting in systems of this kind. It incorporates rate l ...

Keywords: Rate limiting, digital preservation, replicated storage

4 Customized information extraction as a basis for resource discovery



Darren R. Hardy, Michael F. Schwartz
May 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.91 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Indexing file contents is a powerful means of helping users locate documents, software, and other types of data among large repositories. In environments that contain many different types of data, content indexing requires type-specific processing to extract information effectively. We present a model for type-specific, user-customizable information extraction, and a system implementation called Essence. This software structure allows users to associate specialized extracti ...

Keywords: Internet, distributed indexing, resource discovery

5 OceanStore: an architecture for global-scale persistent storage



John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishna Gummadi, Sean Rhea, Hakim Weatherspoon, Chris Wells, Ben Zhao
November 2000 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , Proceedings of the ninth international conference on Architectural support for programming languages and operating systems ASPLOS-IX**, Volume 28 , 34 Issue 5 , 5

Publisher: ACM Press

Full text available: [pdf\(166.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

6 OceanStore: an architecture for global-scale persistent storage



John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishnan Gummadi, Sean Rhea, Hakim Weatherspoon, Westley Weimer, Chris Wells, Ben Zhao
November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

Publisher: ACM Press

Full text available: [pdf\(1.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks;

monitoring also enhances performance through pro-active movement ...

7 A taxonomy of Data Grids for distributed data sharing, management, and processing

 Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.70 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

8 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Data base directions: the next steps

 John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2

Publisher: ACM Press

Full text available:  pdf(9.95 MB) Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

10 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy

 Landon P. Cox, Christopher D. Murray, Brian D. Noble
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available:  pdf(1.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup is a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. *Pastiche* exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data. It is easy for common

installations to find suitable peers, and peers with high ove ...

11 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(558.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

12 Decentralized storage systems: Farsite: federated, available, and reliable storage for

an incompletely trusted environment

Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, John R.

Douceur, Jon Howell, Jacob R. Lorch, Marvin Theimer, Roger P. Wattenhofer

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: [pdf\(1.87 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Farsite is a secure, scalable file system that logically functions as a centralized file server but is physically distributed among a set of untrusted computers. Farsite provides file availability and reliability through randomized replicated storage; it ensures the secrecy of file contents with cryptographic techniques; it maintains the integrity of file and directory data with a Byzantine-fault-tolerant protocol; it is designed to be scalable by using a distributed hint mechanism and delegatio ...

13 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new

world

Marjory S. Blumenthal, David D. Clark

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: [pdf\(176.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

14 PocketLens: Toward a personal recommender system

Bradley N. Miller, Joseph A. Konstan, John Riedl

July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3

Publisher: ACM PressFull text available: [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recommender systems using collaborative filtering are a popular technique for reducing information overload and finding products to purchase. One limitation of current recommenders is that they are not portable. They can only run on large computers connected to the Internet. A second limitation is that they require the user to trust the owner of the recommender with personal preference data. Personal recommenders hold the promise of delivering high quality recommendations on palmtop computers, e ...

Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender Systems

15 File and storage systems: Preserving peer replicas by rate-limited sampled voting

 Petros Maniatis, David S. H. Rosenthal, Mema Roussopoulos, Mary Baker, TJ Giuli, Yanto Muliadi

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM PressFull text available: [pdf\(336.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The LOCKSS project has developed and deployed in a world-wide test a peer-to-peer system for preserving access to journals and other archival information published on the Web. It consists of a large number of independent, low-cost, persistent web caches that cooperate to detect and repair damage to their content by voting in "opinion polls." Based on this experience, we present a design for and simulations of a novel protocol for voting in systems of this kind. It incorporates rate limitation an ...

Keywords: digital preservation, rate limiting, replicated storage

16 Authoring for comprehension: From the writable web to global editability

 Angelo Di Iorio, Fabio Vitali
September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05**

Publisher: ACM PressFull text available: [pdf\(695.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The technical and competence requirements for writing content on the web is still one of the major factors that widens the gap between authors and readers. Although tools that support an easy approach to web writing, such as blogs and wikis, are becoming increasingly important and mainstream, they still lack in terms of layout and typographical sophistication, and, most importantly, only allow local editing (on the pages that are stored by the application itself). In this paper we re-propose an ...

Keywords: collaboration, customization, data collection, global editability, web authoring

17 UFO: a personal global file system based on user-level extensions to the operating system

 Albert D. Alexandrov, Maximilian Ibel, Klaus E. Schauser, Chris J. Scheiman
August 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 3

Publisher: ACM PressFull text available: [pdf\(251.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this article we show how to extend a wide range of functionality of standard operation systems completely at the user level. Our approach works by intercepting selected system calls at the user level, using tracing facilities such as the /proc file system provided by many Unix operating systems. The behavior of some intercepted system calls is then modified to implement new functionality. This approach does not require any relinking or recompilation of existing applications. In fact, the ...

Keywords: file caching, global name space, proc file system, user-level operating system extensions

- 18 [IS '97: model curriculum and guidelines for undergraduate degree programs in information systems](#)



Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)



- 19 [An embedded domain-specific language for type-safe server-side web scripting](#)



Peter Thiemann

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: [pdf\(336.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

Keywords: Interactive Web services, Web programming

- 20 [A survey and analysis of Electronic Healthcare Record standards](#)



Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci

December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: [pdf\(844.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

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Publisher: ACM Press

Full text available:  pdf(1.78 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although talking is an integral part of collaboration, there has been little computer support for acquiring and accessing the contents of conversations. Our approach has focused on ubiquitous audio, or the unobtrusive capture of speech interactions in everyday work environments. Speech recognition technology cannot yet transcribe fluent conversational speech, so the words themselves are not available for organizing the captured interactions. Instead, the structure of an int ...

Keywords: audio interactions, collaborative work, multimedia workstation software, semi-structured data, software telephony, stored speech, ubiquitous computing

22 [The evolution of Coda](#)  M. SatyanarayananMay 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Publisher: ACM Press

Full text available:  pdf(441.35 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

23 Federated database systems for managing distributed, heterogeneous, and autonomous databases

 Amit P. Sheth, James A. Larson
September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available:  pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

24 A framework for constructing features and models for intrusion detection systems

 Wenke Lee, Salvatore J. Stolfo
November 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  pdf(187.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, we need a more systematic and automated IDS development process rather than the pure knowledge encoding and engineering approaches. This article describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models for Intrusion ...

Keywords: data mining, feature construction, intrusion detection

25 Pen computing: a technology overview and a vision

 André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

26 Columns: Risks to the public in computers and related systems

 Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  pdf(3.24 MB) Additional Information: [full citation](#)

How valuable is external link evidence when searching enterprise Webs?

David Hawking, Francis Crimmins, Nick Craswell, Trystan Upstill

January 2004 **Proceedings of the fifteenth Australasian database conference - Volume 27 ADC '04****Publisher:** Australian Computer Society, Inc.Full text available: [pdf\(204.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Link information, especially anchor text, is known to be very useful for effective ranking of web pages, particularly in response to navigational queries. We investigated whether enterprise webs contain sufficient internal link information to adequately answer queries derived from the enterprise's site map or, alternatively, whether adding link evidence from the external Web can boost search effectiveness. Using 1266 navigational queries derived from Stanford University's A-Z site index, we foun ...

Keywords: enterprise search, hyperlink methods, search quality evaluation

- 28 **HyperNews: a MEDIA application for the commercialization of an electronic newspaper**

Jean-Henry Morin, Dimitri Konstantas

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing****Publisher:** ACM PressFull text available: [pdf\(2.74 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** agents, copyright protection, electronic publishing

- 29 **ObjectGlobe: Ubiquitous query processing on the Internet**

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzam, K. Stocker
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1**Publisher:** Springer-Verlag New York, Inc.Full text available: [pdf\(251.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

- 30 **4.2BSD and 4.3BSD as examples of the UNIX system**

John S. Quarterman, Abraham Silberschatz, James L. Peterson

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4**Publisher:** ACM PressFull text available: [pdf\(4.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of

California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

31 Distributed form management

 Heikki Hämmänen, Eero Eloranta, Jari Alasuvanto

January 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An open architecture for distributed form management is described. The model employs object-orientation in describing organizational units as well as individual users as entities with uniform external interfaces. Each entity is represented by an autonomous user agent which operates on local and migrating forms. The form concept encapsulates data, layout, and rules into a unified object which is the basic unit of presentation, processing, storage, and commun ...

32 Reference model for DBMS standardization

 March 1986 **ACM SIGMOD Record**, Volume 15 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.62 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This report proposes a Reference Model (RM) for database management system (DBMS) standardization. A Reference Model is a conceptual framework whose purpose is to divide standardization work into manageable pieces and to show at a general level how these pieces are related with each other. The proposed RM comprises a Data Mapping Control System (DMCS) that retrieves and stores application data, application schemas, and data dictionary schemas. This DMCS is bounded by two interfaces: the Data Lan ...

33 Internet security standards: past, present, and future

 Stephen Kent

June 1994 **StandardView**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.14 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

34 Risks to the public: Risks to the public

 Peter G. Neumann

March 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  pdf(144.71 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

35 Workshop on compositional software architectures: workshop report

 May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.91 MB)

Additional Information: [full citation](#), [index terms](#)

36 Serverless network file systems

 T. E. Anderson, M. D. Dahlin, J. M. Neefe, D. A. Patterson, D. S. Roselli, R. Y. Wang
 December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available:  pdf(2.48 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**37 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles**

 Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta
 May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(693.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

Keywords: collaborative systems, networking and distributed web applications, privacy and preferences

**38 Cluster-based scalable network services**

 Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
 October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available:  pdf(2.42 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**39 Distributed software engineering**

Jeff Kramer

May 1994 **Proceedings of the 16th international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [references](#), [citations](#)

**40 Risks to the public in computers and related systems**

 Peter G. Neumann
 January 1987 **ACM SIGSOFT Software Engineering Notes**, Volume 12 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.91 MB) Additional Information: [full citation](#), [abstract](#)



The RISKS Forum in *Software Engineering Notes* does not limit itself just to software problems (let alone software engineering) because the risks we discuss don't either. Thus the topic demands a broad perspective.

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Peter A. Dinda, Dong Lu

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available:  [pdf\(398.17 KB\)](#) Additional Information: [full citation](#), [abstract](#)

A Grid Information Service (GIS) stores information about the resources of a distributed computing environment and answers questions about it. We are developing RGIS, a GIS system based on the relational data model. RGIS users can write SQL queries that search for complex compositions of resources that meet collective requirements. Executing these queries can be very expensive, however. In response, we introduce the nondeterministic query, an extension to the SELECT statement, which allows the u ...

42 Sifting out the mud: low level C++ code reuse Bjorn De Sutter, Bruno De Bus, Koen De BosschereNovember 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

More and more computers are being incorporated in devices where the available amount of memory is limited. This contrasts with the increasing need for additional functionality and the need for rapid application development. While object-oriented programming languages, providing mechanisms such as inheritance and templates, allow fast development of complex applications, they have a detrimental effect on program size. This paper introduces new techniques to reuse the code of whole procedures at t ...

Keywords: code compaction, code size reduction**43 Active Proxy-G: optimizing the query execution process in the grid**

Henrique Andrade, Tahsin Kurc, Alan Sussman, Joel Saltz

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(247.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Grid environment facilitates collaborative work and allows many users to query and process data over geographically dispersed data repositories. Over the past several years, there has been a growing interest in developing applications that interactively analyze datasets, potentially in a collaborative setting. We describe the Active Proxy-G service that is able to cache query results, use those results for answering new incoming queries, generate subqueries for the parts of a query that cann ...

- 44 [Session 9A: applications in commerce: IntelliShopper: a proactive, personal, private shopping assistant](#) 

 Filippo Menczer, W. Nick Street, Narayan Vishwakarma, Alvaro E. Monge, Markus Jakobsson
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Publisher: ACM Press

Full text available:  pdf(383.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The IntelliShopper is a shopping assistant designed to empower consumers. It is a personal assistant in that it observes the users while shopping and learns their preferences with respect to various features that characterize shopping items. It is proactive in that it remembers the users' requests and autonomously monitors vendor sites for new items that might match the users' needs and preferences. Finally, it protects users' privacy by means of pseudonymity, IP anonymizing, and trusted filte ...

Keywords: learning, monitoring, personalization, privacy, pro-activity, shopping

- 45 [Report on the seventh ACM SIGOPS European workshop: systems support for worldwide applications](#) 

 Andrew S. Tanenbaum
January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1

Publisher: ACM Press

Full text available:  pdf(923.32 KB) Additional Information: [full citation](#), [index terms](#)

- 46 [Centaurus: an infrastructure for service management in ubiquitous computing environments](#) 

Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha
November 2002 **Wireless Networks**, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(553.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in most engineered artifacts, from the clothes we wear to the roads we drive on. All of these devices will be (wirelessly) networked using Bluetooth, IEEE 802.15 or IEEE 802.11 for short range connectivity creating pervasive environments. In this age wh ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous computing

- 47 [Good news and bad news on the intellectual property front](#) 

 Pamela Samuelson
March 1999 **Communications of the ACM**, Volume 42 Issue 3

Publisher: ACM Press

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48 Digest of proceedings seventh IEEE workshop on hot topics in operating systems

 March 29-30 1999, Rio Rico, AZ

M. Satyanarayanan

October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.67 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Seventh IEEE Workshop on Hot Topics in Operating Systems was held on March 29-30 1999 at the Rio Rico Resort & Country Club, south of Tucson, Arizona. The General Chair, Peter Druschel, and the Local Arrangements Chair, John Hartman, had gone to considerable effort to make the operation of the workshop smooth and pleasant for the participants. The secluded desert locale, the effect of brilliant sunshine and blue skies on winter-jaded northerners, and the enthusiasm and energy of the ...

49 Multilateral security a concept and examples for balanced security

 Kai Rannenberg

February 2001 **Proceedings of the 2000 workshop on New security paradigms**

Publisher: ACM Press

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: GSM, mobile communication, multilateral security, negotiation, privacy, protection, reachability management, security management, simulation study

50 DeepView: a channel for distributed microscopy and informatics

 B. Parvin, J. Taylor, G. Cong, M. A. O'Keefe, M. H. Barcellos-Hoff

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM Press

Full text available: [pdf\(2.69 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

51 A team teaching approach to inclusion of a security component in IS and CS curricula

James Harris, Maeve Cummings, Felix Dreher, Kailash Chandra

April 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 4

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [pdf\(56.22 KB\)](#)

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Issues related to computer security and information assurance are important to everyone who uses information technology and these issues will have a substantial impact on the careers of students pursuing degrees in computer science and information systems. The onus, therefore, is on universities and colleges to include IT security in computer-related curricula. This presents a challenge especially for small departments where faculty members already have full teaching loads supporting service cou ...

52 Articles: Web Services: Promises and Compromises

Joanne Martin, Ali Arsanjani, Peri Tarr, Brent Hailpern

 March 2003 **Queue**, Volume 1 Issue 1

Publisher: ACM Press

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IEE JNL IEE Journal or Magazine

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Gil-Bazo, J.; Moreno, D.; Tapia, M.;
Evolutionary Computation, 2005. The 2005 IEEE Congress on
 Volume 3, 2-5 Sept. 2005 Page(s):2453 - 2460 Vol. 3
 Digital Object Identifier 10.1109/CEC.2005.1555001

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IEEE STD IEEE Standard

2. **An efficient data mining technique for discovering interesting association**

Show-Jane Yen; Chen, A.L.P.;
Database and Expert Systems Applications, 1997. Proceedings., Eighth Intern:
on
 1-2 Sept. 1997 Page(s):664 - 669
 Digital Object Identifier 10.1109/DEXA.1997.617409

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3. **Relational database systems with zero information loss**

Bhargava, G.; Gadla, S.K.;
Knowledge and Data Engineering, IEEE Transactions on
 Volume 5, Issue 1, Feb. 1993 Page(s):76 - 87
 Digital Object Identifier 10.1109/69.204093

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4. **A graph-based approach for discovering various types of association rule**

Show-Jane Yen; Chen, A.L.P.;
Knowledge and Data Engineering, IEEE Transactions on
 Volume 13, Issue 5, Sept.-Oct. 2001 Page(s):839 - 845
 Digital Object Identifier 10.1109/69.956106

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5. **Evaluation and design of online cooperative feedback mechanisms for re**

management
 Ming Fan; Yong Tan; Whinston, A.B.;
Knowledge and Data Engineering, IEEE Transactions on
 Volume 17, Issue 2, Feb. 2005 Page(s):244 - 254

Digital Object Identifier 10.1109/TKDE.2005.26

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6. Transaction management in deregulated electricity markets

Kuhlmann, D.; Ejebi, G.C.; Tomasic, D.;

[Power Industry Computer Applications, 2001. PICA 2001. Innovative Computer](#)
[Electric Energy Meets the Market. 22nd IEEE Power Engineering Society Inter](#)
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20-24 May 2001 Page(s):171 - 175

Digital Object Identifier 10.1109/PICA.2001.932342

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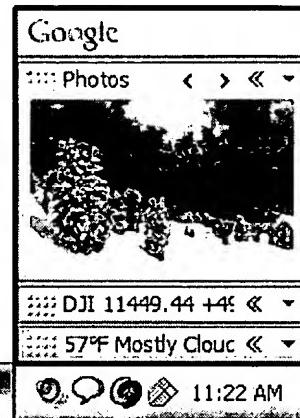
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